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Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY							
	ΆΙ	5,182,109		Tamura, et al.	01-26-1993							
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-71	Bl	·wo	95/09649		MEDEVA HOLDINGS B.V.	04-13-1995	
0	B2	wo	95/34323		CONNAUGHT LABORATORIES LIMITED	12-21-1995	
	B3	wo	96/06627		THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND	03-07-1996	
	B4	wo	99/58145		UNIVERSITY OF BRISTOL	11-18-1999	
T	B5	wo	00/18434		AMERICAN CYNAMID COMPANY	04-06-2000	<b>†</b>
	B6	EP	0396964		SCLAVO S.P.A.	11-14-1990	<del>                                     </del>
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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
XI	Cl	Burnette, "The Advent of Recombinant Pertussis Vaccines." Biotechnol. 8:1002-1005 (1990)
-//	C2	Burnette, Vaccine Research & Developments Marcel Dekker Inc., New York, New York (1992)
	C3	Clements, et al., "Adjuvant Activity of Escherichia Coli Heat-Labile Enterotoxin and Effect on the Induction of Oral Tolerance in Mice to Unrelated Protein Antigens." Vaccine 6:269-277 (1988)
	C4	Communication to EPO Concerning Replacement Claims for Filing with the EPO in Application No. 99922284.7 (2003)
	C5	de Haan, et al., "Mutational Analysis of the Role of ADP-Ribosylation Activity in the Adjuvant Properties of the Escherichia Coli Heat-Labile Enterotoxin Towards Intranasally Administered Keyhole Limpet Hemocyanin." Eur. J. Immunol. 28:1243-1250 (1998)
	C6	Del Guidice, et al., "Genetically Derived Toxoids for use as Vaccines and Adjuvants." Vaccine 17:S44-S52 (1999)
	C7	Douce, et al., "Mutants of Escherichia Coli Heat-Labile Toxin Lacking ADP-Ribosyltransferase Activity act as Nontoxic, Mucosal Adjuvants." PNAS USA 92:1644-1648 (1995)
	C8	Douce, et al., "Intranasal Immunogenicity and Adjuvanticity of Site Directed Mutant Derivatives of Cholera Toxin." Infect. Immun. 65:2821-2828 (1997)
	C9	EPO Communication pursuant to Article 96(2) EPC relating to Application EP No. 94928455.8-2116 (2001)
	C10	"Multicomponent Vaccine Development." NIH Guide Volume 22, Number 28 (1993)
	CH	Green, Bruce, Curriculum Vitae
	C12	Hagen, Michael, Curriculum Vitae
	C13	Hagiwar, et al., Effectiveness and Safety of Mutant Escherichia Coli Heat-Labile Enterotoxin (LT H44A) as an Adjuvant for Nasal Influenza Vaccine." Vaccine 19:2071-2079 (2001)
	C14	Hartman, et al., "Native and Mutant Forms of Cholera Toxin and Heat-Labile Enterotoxin Effectively Enhance Protective Efficacy of Live Attenuated and Heat-Killed Shigella Vaccines." Infect. Immun. 67:5841-5847 (1999)
	C15	Hazama, et al., "Intranasal Immunization Against Herpes Simplex Virus Infection by using a Recombinant Glycoprotein D Fused with Immunomodulating Proteins, the B Subunit of Escherichia Coli Heat-Labile Enterotoxin and Interleukin-2." Immunology 78:643-649 (1993)
	CI6	Hirst, et al., "Cholera Toxin and Related Enterotoxins as Potent Immune Modulators." J. Appl. Microb. Symp. Suppl. 48:26S-34S (1998)
	CI7	Hirst, The Comprehensive Sourcebook of Bacterial Protein Toxins, Chapter 6, Academic Press, pgs. 104-130, (1999)
	C18	Holmgren, et al., "Cholera Toxin and Cholera B Subunit as Oral-Mucosal Adjuvant and Antigen Vector Systems." Vaccine 11:1179-1184 (1993)
	C19	Lycke, et al., "Strong Adjuvant Properties of Cholera Toxin on Gut Mucosal Immune Responses to Orally Presented Antigens."  Immunol. 56:301-308 (1986)
	C20	Lycke, et al, "The Mechanism of Cholera Toxin Adjuvanticity." Res. Immunol. 198:504-520 (1997)
	C21	Martindale, Royal Pharmaceutical Society of Britain Pharmaceutical Press, London, England, pgs.1277-1304(1993)
. ]	C22	Rappouli, et al., "Structure and Mucosal Adjuventicity of Cholera and Escherichia Coli Heat-Labile Enterotoxins." Immunol. Today 20:493-500 (1999)
	C23	Spangler, "Structure and Function of Cholera Toxin and The Related Escherichia Coli Heat-Labile Enterotoxin." Microbiol. Rev. 56:622-647 (1992)
	C24	Streatfield, et al., "Intermolecular Interactions Between the A and B Subunits of Heat-Labile Enterotoxin from Escherichia Coli Promote Holotoxin Assembly and Stability In Vivo." PNAS USA 89:12140-12144 (1992)
	_C25	The Comprehensive Sourcebook of Bacterial Protein Toxins, 2 <sup>nd</sup> Ed., Academic Press, pgs. 696-697
	C26	Tsuji, et al., "Relationship Between a Low Toxicity of the Mutant A Subunit of Enterotoxigenic Escherichia Coli Enterotoxin and its Strong Adjuvant Action." Immunology 90:176-182 (1997)

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
Examiner	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	C27	Verweij, et al., Mucosal Immunoadjuvant Activity of Recombinant Escherichia Coli Heat-Labile Enterotoxin and its B Subunit: Induction of Systematic IgG and Secretory IgA Responses in Mice by Intranasal Immunization with Influenza Virus Surface Antigen." Vaccine 16:2069-2076 (1998)
	C28	Walker, et al., "Use of Heat-Labile Toxin Enterotoxigenic Escherichia Coli to Facilitate Mucosal Immunization." Vaccine Res. 2:1-10 (1993)
	C29	Williams, Neil, Affidavit, Curriculum Vitae, and Annex 1
	C30	Yamamoto, et al., "Mutants in the ADP-Ribosyltransferase Cleft of Cholera Toxin Lack Diarrheagenicity but Retain Adjuvanticity."  J. Exp. Med. 185:1203-1210 (1997)

Examiner Signature				Date -Considered		19	01	
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Complete if Known Substitute for form 1449A/PTO **Application Number** 10/611,398 (Confirmation No. 1890) INFORMATION DISCLOSURE Filing Date June 30, 2003 PIZZA et al. First Named Inventor STATEMENT BY APPLICANT Group Art Unit 1642 (use as many sheets as necessary) Unassigned Examiner Name Sheet of Attorney Docket Number PP00338.105 (2300-0338.02)

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4	Al	4,328,209		Finkelstein et al.	5/4/82							
	A2	4,666,837		Harford et al.	5/19/87							
	A3	4,935,364		Kaper et al.	6/19/90							
T	A4	5,601,827		Collier et al.	2/11/97							
	A5	5,668,255		Murphy	9/16/97							
	A6	5,770,203		Burnette et al.	6/23/98							
	A7	6,019,982		Clements et al.	2/1/00							
	A8	6,033,673		Clements	3/7/00							
	A9	6,149,919		Domenighini et al.	11/00							

				FOREIGN	PATENT DOCUMENTS		
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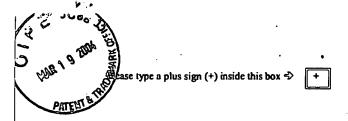
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<sup>&</sup>lt;sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
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Y	CI	BOSLEGO, J.W. et al., Vaccines and Immunotherapy, Chapter 17, 1991, 211-223
1	C2	BURNETTE, W.N. et al., "Site-specific mutagenesis of the catalytic subunit of cholera toxin: substituting lysine for arginine 7 causes loss of activity," Inf. & Immun., 1991, 59:4266-4270
	C3	DALLAS, W.S. et al., "Cistrons encoding Escherichia coli heat-labile toxin," J. Bacteriol., 1979, 139:850-858
	C4	DENTE, L. et al., "pEMBL: a new family of single stranded plasmids," Nucleic Acids Res., 1983 11(6):1645-1655
	C5	DOMENIGHINI, M. et al., "Identification of errors among database sequence entries and comparison of correct amino acid sequences for the heat-labile enterotoxins of Eschericia coli and Vibrio cholerae," Mol. Microbiol., 1995, 15(6):1165-1167
	C6	DOMENIGHINI, M. et al., "Common features of the DNA-binding and catalytic site of ADP-ribosylating toxins," Mol. Microbiol., 1994, 14(1):41-50
	C7	DICKINSON, B. et al., "Dissociation of Escherichia coli heat-labile enterotoxin adjuvanticity from ADP-ribosyltransferase activity," Infection and Immunity, 1995, 63(5):1617-1623
	C8	DONTA, S., "Detection of heat-labile Escherichia coli enterotoxin with the use of adrenal cells in tissue culture," Science, 1974, 183:334-336
	C9	FONTANA, M.R. et al., "Construction of nontoxic derivatives of cholera toxin and characterization of the immunological response against the A subunit," <i>Infection and Immunity</i> , 1995, 63(6):2356-2360
	C10	GRANT, C. et al., "Role of trypsin-like cleavage at arginine 192 in the enzymatic and cytotonic activities of Escherichia coli heat-labile enterotoxin," Infection and Immunity, 1994, 62(10):4270-4278
	Cii	GRANT, C.C.R. et al., "Effect of single amino acid changes on the ADP-ribosyltransferase activity of Escherichia coli heat-labile toxin subunit A," 92 <sup>rd</sup> Gen. Meet. Am. Soc. Microbiol., 1992, Abstract B278, 74
	C12	HARFORD, S. et al., "Inactivation of the Escherichia coli heat-labile enterotoxin by in vitro mutagenesis of the A-subunit gene,"  Eur. J. Biochem., 1989, 183:311-316
	C13	HASE, C. et al., "Construction and characterization of recombinant Vibrio cholerae strains producing inactive cholera toxin analogs," Infection and Immunity, 1994, 62(8):3051-3057
	C14	HIRST, T. et al., "Transient entry of enterotoxin subunits into the periplasm occurs during their secretion from Vibrio cholerae," J. Bacteriol., 1987, 169(3):1037-1045
	C15	HOLMGREN, J. et al., "Oral immunization against cholera," Curr. Top. Microbiol. Immunol., 1998, 146:197-204
	C16	JOBLING, M.G. et al., "Analysis of the structure and function of cholera toxin A subunit," Abstr. Gen. Meet. Am. Soc. Microbiol., 1991, 91(0), 59, #B205
	C17	KASLOW, H.R. et al., "Effects of site-directed mutagenesis on cholera toxin A1 subunit ADP-ribosyltransferase activity," 92 <sup>nd</sup> Gen. Meet. Am. Soc. Microbiol., 1992, Asbract B291, 74
	C18	KASLOW, H.R. et al., "Site-specific mutagenesis of the pertussis toxin S1 subunit gene: effects of amino acid substitutions involving residues 50-58," Vaccine Research, 1992, 1(1):47-54
	C19	LAI, C.Y. et al., "Location and amino acid sequence around the ADP-ribosylation site in the cholera toxin active subunit A <sub>1</sub> ,"  Biochem. Biophys. Res. Comm., 1983, 116:341-348
	C20	The Lancet, September 27, 1986, 328(8509):722-723, "Oral Cholera Vaccines"
	C21	LEBACQ-VERHEYDEN, A.M. et al., "Posttranslation processing of endogenous and of baculovirus-expressed human gastrin- releasing peptide precursor," Mol. Cell. Biol., 1988, 8:3129-3135
	C22	LOBET, Y. et al., "Effect of site-directed mutagenic alterations on ADP-ribosyltransferase activity of the A subunit of Escherichia coli heat-labile enterotoxin," Inf. & Immun., 1991, 59:2870-2879
· \	C23	LOOSEMORE, S.M. et al., "Engineering of genetically detoxified pertussis toxin analogs for development of a recombianant whooping cough vaccine," Infection and Immunity, 1990, 58(11):3653-3662
\/	C24	LYCKE, N. et al., "The adjuvant effect of Vibrio cholerae and Escherichia coli heat-labile enterotoxins is linked to their ADP-ribosyltransferase activity," Eur. J. Immunol., 1992, 22:2277-2281

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$\mathbb{C} \setminus \mathcal{J}$	C25	MAGAGNOLI, C. et al., "Mutations in the A subunit affect yield, stability, and protease sensitivity of nontoxic derivatives of heat-
$\searrow U$	1	labile enteroxotin," Infection and Immunity, 1996, 64(12):5434-5438
	C26	MEKALANOS, J.J. et al., "Cholera toxin genes: nucleotide sequence, deletion analysis and vaccine development," Nature, 1983,
		306:551-557
	C27	Molecular Microbiology, 1995, 15(6):1165-1167, "MicroCorrespondence"
	C28	OKAMOTO, J. et al., "Effect of substitution of glycine for arginine at position 146 of the A1 subunit on biological activity of Escherichia coli heat-labile enterotoxin," Bacteriol., 1988, 2208
$\vdash$	C20	
┝┈┼┈	C29	OSEASOHN, R., "Cholera," In Plotkin S.A., Mortimer, E.A. (Eds.), Vaccines, 1988, WB Saunders Co., Philadelphia, PA
	C30	PEARSON, G. et al., "Molecular cloning of Vibrio cholerae enterotoxin genes in Escherichia coli K-12," Proc. Natl. Acad. Sci. USA, 1982, 79:2976-2980
	C31	PICKETT, C.L. et al., "Genetics of type lia heat-labile enterotoxin of <i>Escherichia coli</i> : operon fusions, nucleotide Sequence, and hybridization studies," <i>J. Bacteriol.</i> , 1987, 169:5180-5187
	C32	PIZZA, M. et al., "A genetically detoxified derivative of heat-labile Escherichia coli enterotoxin induces neutralizing antibodies against the A subunit," J. Exp. Med., 1994, 180:2147-2153
	C33	PIZZA, M. et al., "Probing the structure-activity relationship of Escherichia coli LT-A by site-directed mutagenesis," Mol. Microbiol., 1994, 14(1):51-60
	C34	PIZZA, M. et al., "The subunit S1 is important for pertussis toxin secretion," J. Biol. Chem., 1990, 265(29):17759-17763
	C35	PRONK, S. et al., "Heat-labile enteroxotin of Escherichia coli," J. Biol. Chem., 1985, 260(25):13580-13584
	C36	RAPPUOLI, R. et al., "Structure and evolutionary aspects of ADP-ribosylating toxins, Sourcebook of Bacterial Toxins, 1991.
		Academic Press Limited, 1-21
	C37	SANDKVIST, M. et al., "Assembly of Escherichia coli heat-labile enterotoxin and its secretion from Vibrio cholerae," Molecular
1		Meachanisms of Bacterial Virulence, 1993, Chapter 21, 293-309
	C38	SIXMA, T.K. et al., "Crystal structure of a cholera toxin-related heat-labile enterotoxin from E. coli," Nature, 1991, 351:371-377
	C39	SPICER et al., "Sequence homologies between A subunits of Escherichia coli and Vibrio cholerae enterotoxins," Proc. Natl. Acac.
1		Sci. USA, 1981, 78(1):50-54
	C40	SPICER et al., "Escherichia coli heat-labile enterotoxin," Biol. Chem., 1982, 257:5716-5721
	C41	TSUJI, T. et al., "A simple amino acid substitution in the A subunit of Escherichia coli enterotoxin results in a loss of its toxic
1 1		activity," J. Biol. Chem., 1990, 265:22520-22525
	C42	YAMAMOTO, T. et al., "Primary structure of heat-labile enterotoxin produced by Escherichia coli pathogenic for humans," J. Biol.
		Chem., 1984, 259:5037-5044
$\sqrt{M}$	C43	ZOLLER, M. et al., "Oligonucleotide-directed mutagensis using M13-derived vectors: an efficient and general procedure for the
		production of point mutations in any fragment of DNA," Nucleic Acids Res., 1982, 10(20):6487-6500

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